

Human TACI/TNFRSF13B Protein, Ultra Low Endotoxin

Cat. No. TAC-HM213-UL

Description

| | |
|-------------------------|--|
| Source | Recombinant Human TACI/TNFRSF13B Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus. It contains Ser2-Thr166. |
| Accession | O14836-1 |
| Molecular Weight | The protein has a predicted MW of 45.3 kDa. Due to glycosylation, the protein migrates to 38-40 kDa and 50-55 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 0.01 EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

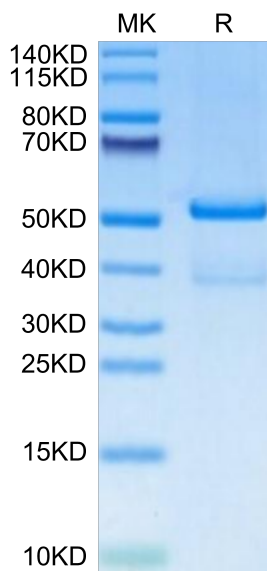
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

Background

Transmembrane activator and calcium-modulating cyclophilin ligand interactor (TACI) is one of the receptors of B cell activating factor of the tumor necrosis factor family (BAFF) and a proliferation-inducing ligand (APRIL). TACI is a regulator in the immune responses. TACI inhibits B cell expansion and promotes the differentiation and survival of plasma cells.

Assay Data

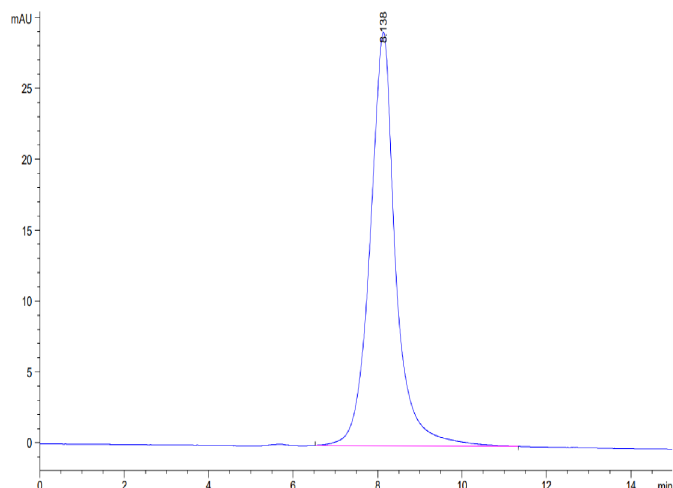
Bis-Tris PAGE



Human TACI on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

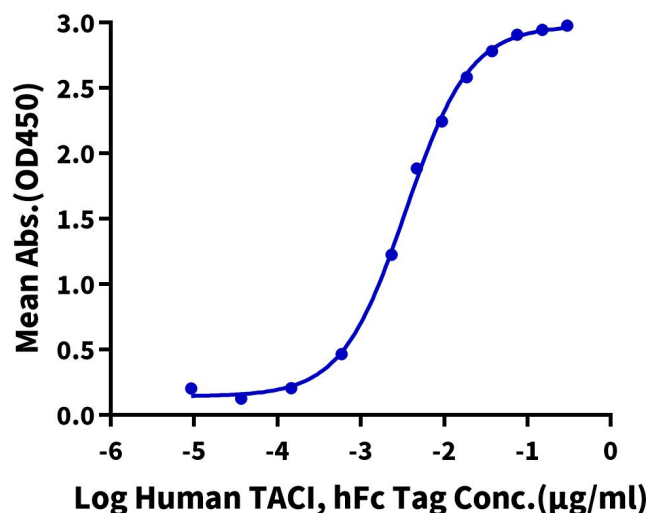


The purity of Human TACI is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human TACI, hFc Tag ELISA

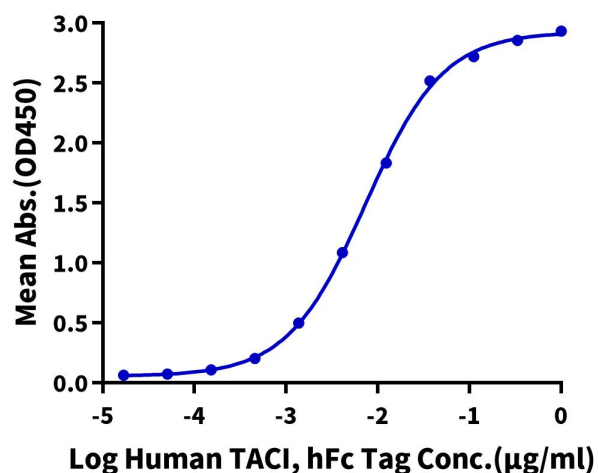
0.2µg Human BAFF (Trimer), His Tag Per Well



Immobilized Human BAFF Trimer, His Tag (Cat. BAF-HM112) at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TACI, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA (QC Test).

Human TACI, hFc Tag ELISA

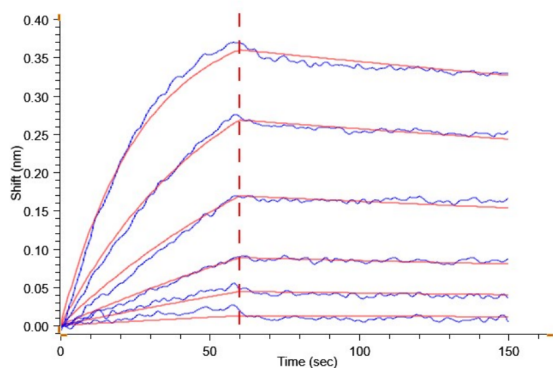
0.1µg Biotinylated Human APRIL (Trimer), His Avi Tag Per Well



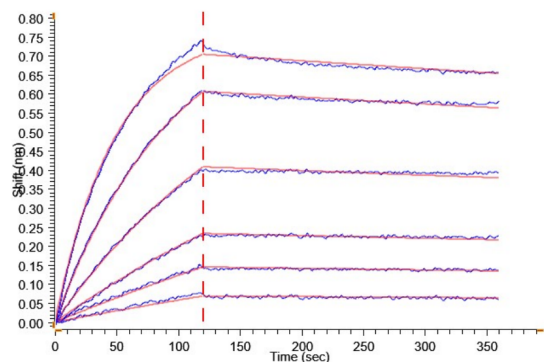
Immobilized Biotinylated Human APRIL (Trimer), His Avi Tag (Cat. APR-HM410B) at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human TACI, hFc Tag with the EC50 of 7.3ng/ml determined by ELISA.

Assay Data

BLI Data



Loaded Human TACI, hFc Tag on ProA-Biosensor can bind Human APRIL (Trimer), His-Flag Tag (Cat. APR-HM110) with an affinity constant of 0.76nM as determined in BLI assay .



Loaded Human TACI, hFc Tag on ProA-Biosensor can bind Human BAFF (Trimer), His-Flag Tag (Cat. BAF-HM112) with an affinity constant of 1.53 nM as determined in BLI assay .